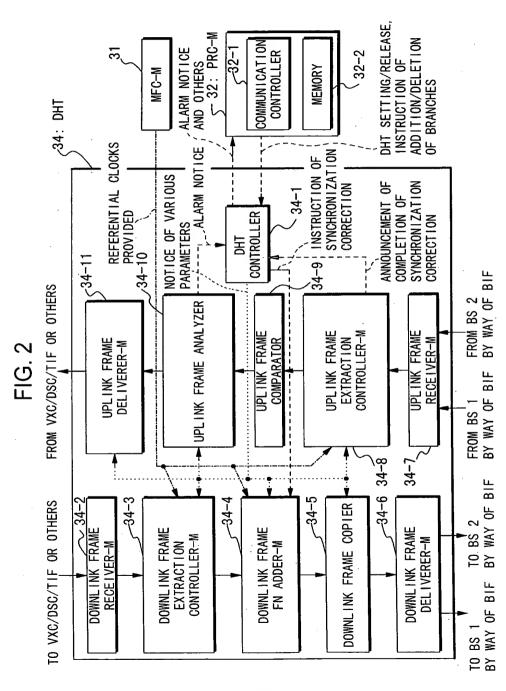


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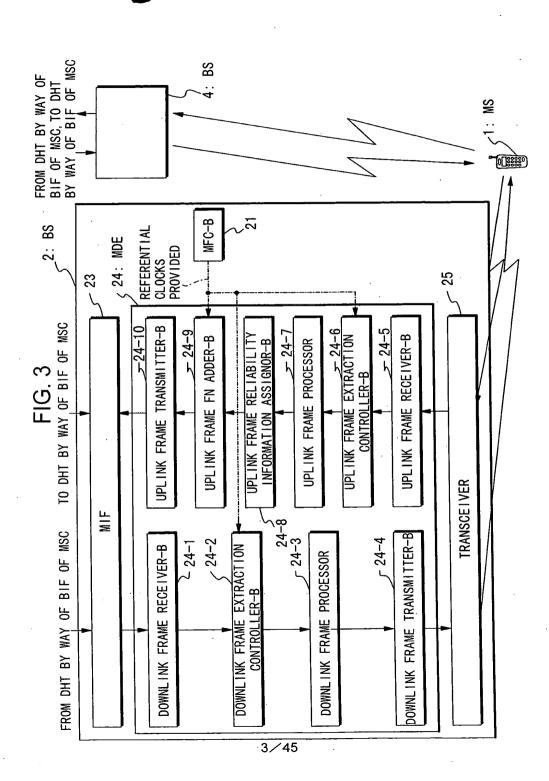


FIG 4

CONNECTION MANAGEMENT TABLE

NETWORK SIDE CONNECTION VP = 3 VC = 32 CID = 42 VP = VC = CID = CID = CID = CID BRANCH ID VP = 4 VC = 32 CID = 50 VP = 2 VC = 32 CID = 40 VP = 3 VC = 33 CID = 36 BRANCH ID BRANCH ID VP = 1 VC = 32 CID = 32 VP = 1 VC = 32 CID = 40 NUMBER OF DHO BRANCHES 2 က LDENT IF I ER CALL

FIG. 5

MSC-BS TRANSMISSION DELAYS BY SERVICE TYPES MANAGEMENT TABLE (UNIT = ms)

SERVICE TYPE. TARGET BS	(a-1) MS∼MSC CONTROL SIGNAL	(a-2) V01CE	(a-3) DATA COMMUNICATION	·	(a-n) SERVICE n
(b-1) BS 1	80	30	50		
(b-2) BS 2	85	38	55		
	_		-		
(b-n) BS n	75	25	45		
(b-max) MAXIMUM	06	40	60		
				The state of the s	

FIG. 6

QUALITY DEGRADATION AND OUT-OF-SYNC PARAMETERS

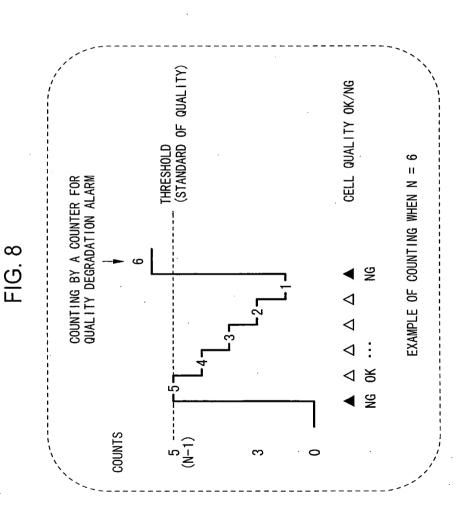
	(a-n) SERVICE n				
	÷				
	(a-3) DATA COMMUNICATION	0	10	2	
	(a-2) V01CE	1000	. 10	2	
	(a-1) MS∼MSC LINK FOR AFFILIATED CONTROL SIGNALS	1000	10	2	
	SERVICE TYPE	MEASUREMENT PERIOD (ms)	THRESHOLD FOR ANNOUNCEMENT REPORT _{FER}	NUMBER OF SUCCESSIVE OUT-OF-SYNC FRAMES REPORT SOUT	
٠	S	QUALITY	MEASUREMENT PARAMETER	OUT-OF -SYNCHRONIZATION DETECTION PARAMETER	

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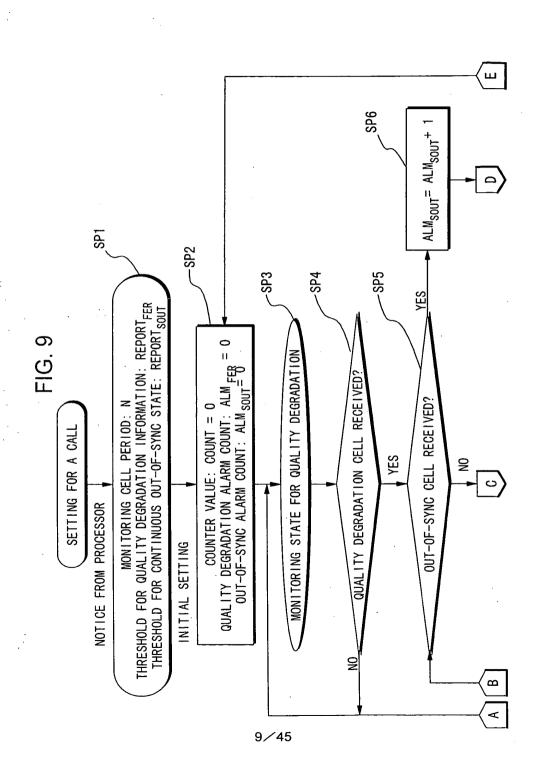
FIG. 7

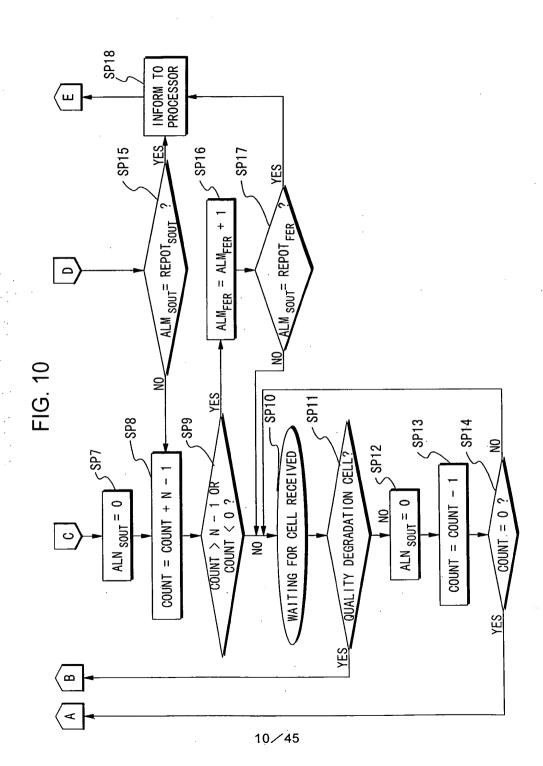
TRAFFIC INFORMATION TABLE

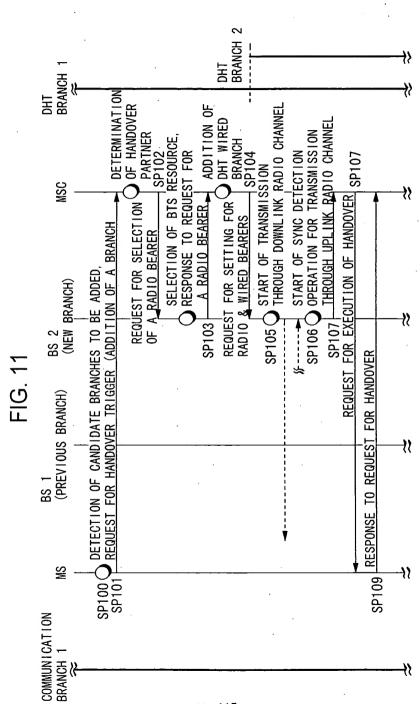
SERVICE TYPE TRAFFIC INFORMATION	PE (a-1) MS~MSC CONTROL SIGNAL	(a-2) V01GE	(a-3) DATA COMMUNICATION	•	(a-n) SERVICE n
CELL INTERVAL (ms)	40	10	10		
NUMBER OF CELLS	VARIABLE	-	က		

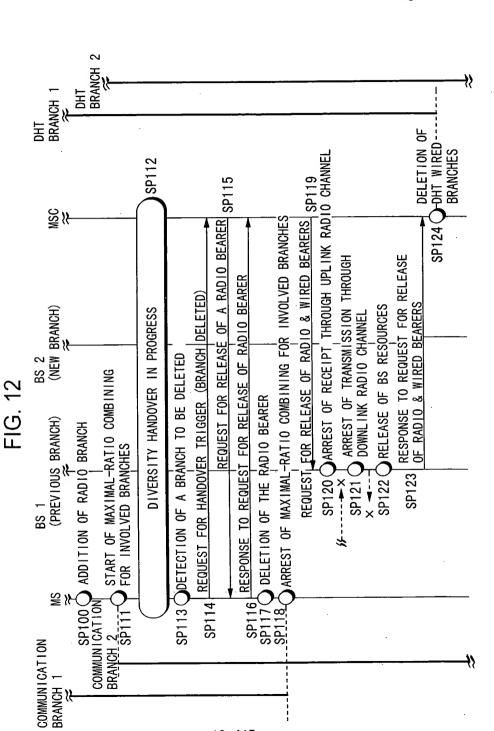




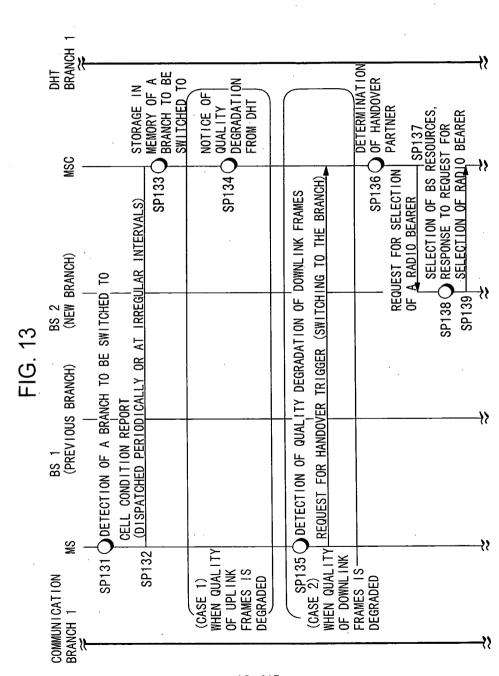




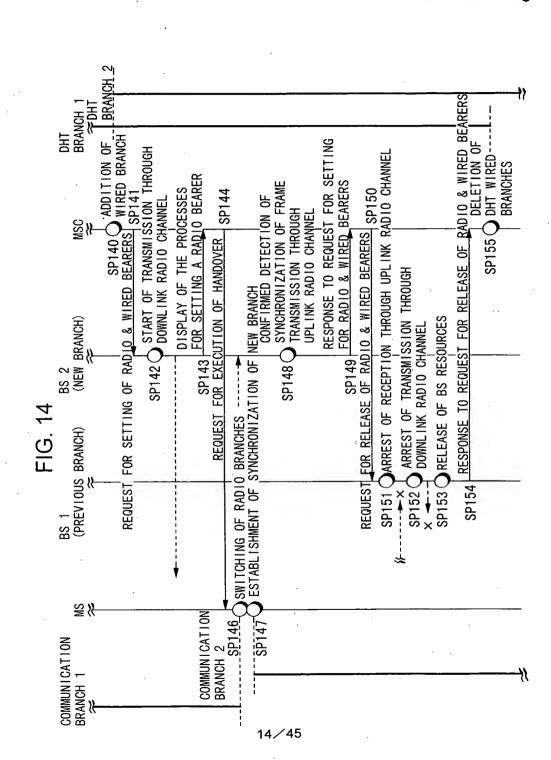




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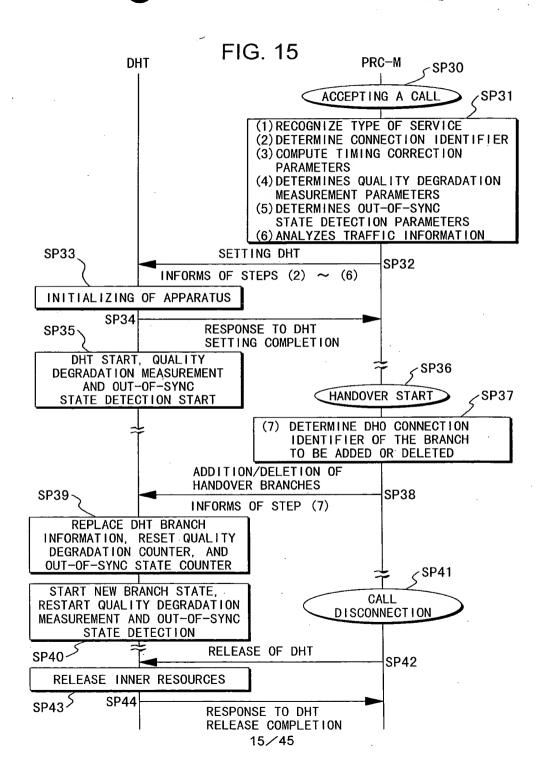
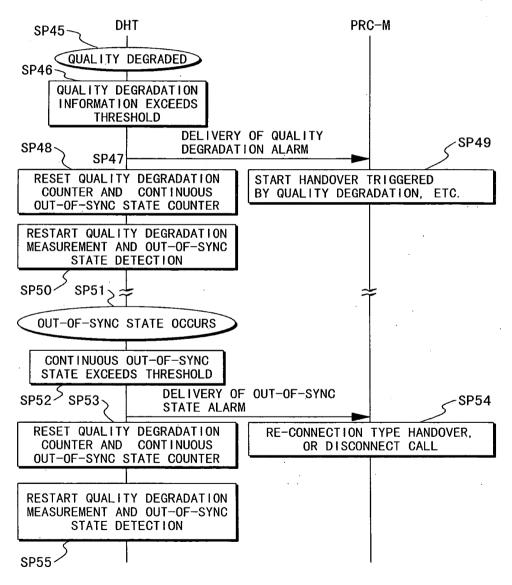


FIG. 16



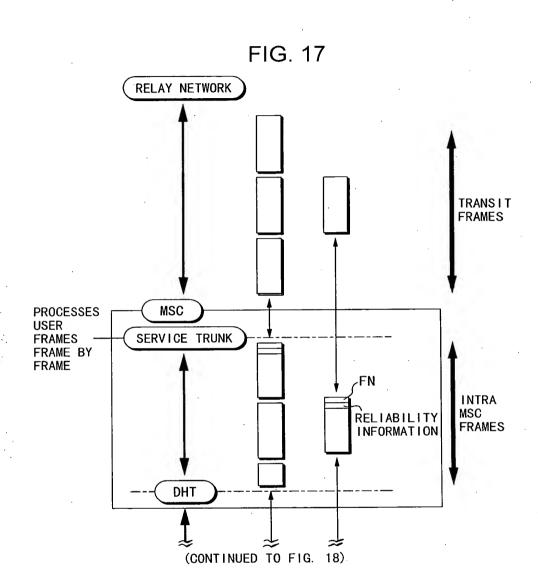
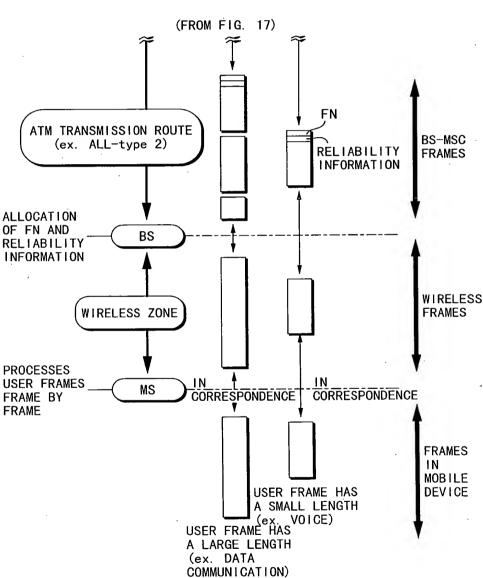
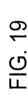


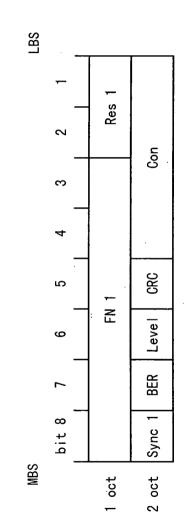
FIG. 18



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0 = NORMAL0 = NORMAL0 = SYNC MAINTAINED 0~F(H)(16 STEPS) A LARGER NUMBER INDICATES A LARGER RECEIVED SIR. = DEGRADATION DETECTED, = DEGRADATION DETECTED, = 0UI - 0F - SYNC,0 = 0 $0 \sim 63$ OUT-OF-SYNC STATE OF RADIO FRAMES EVALUATION BIT

EVEL DEGRADATION EVALUATION BIT BER INFERIORITY DECISION BIT

Level BER

CRC Son

RECEIVED SIR VALUE CRC DECISION BIT

RESERVE BIT

WIRELESS FRAME NUMBER

Sync

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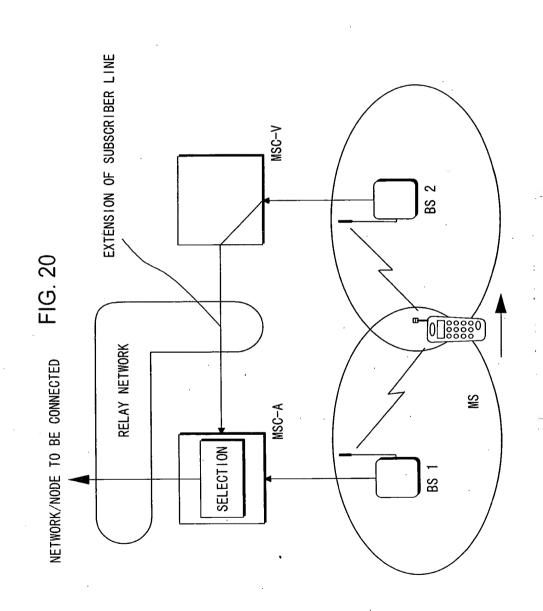
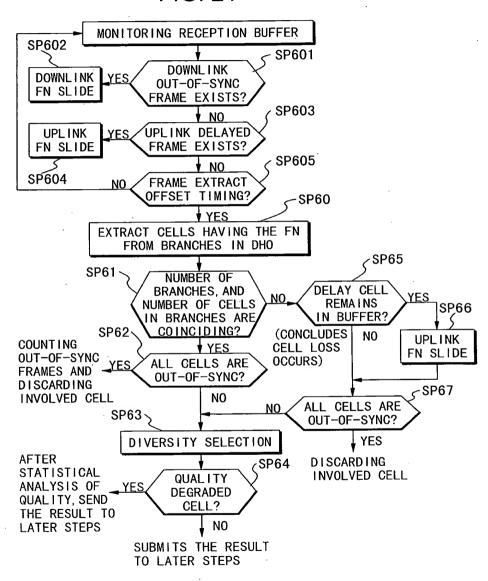


FIG. 21





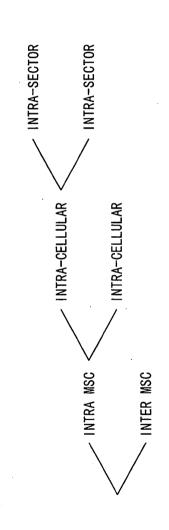
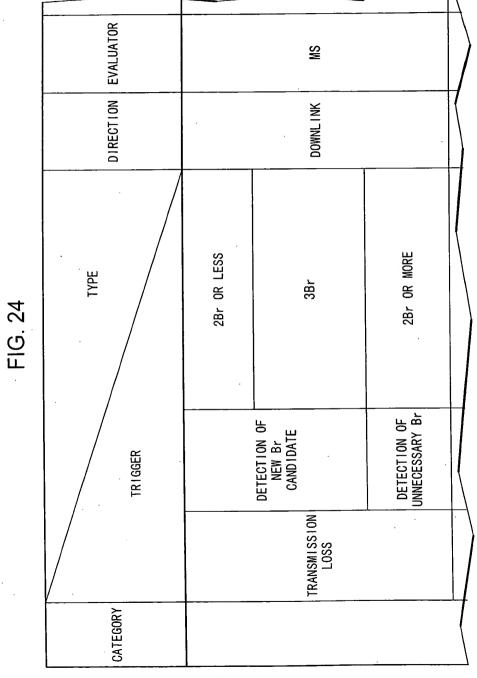


FIG. 23

		l			
——————————————————————————————————————	Θ	$\begin{array}{c} \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array}$	Θ	
ITION OF Br	ETION OF Br	2Br OR LESS		нер но	ECTION JOOVER
ADD	DELE		ADDI.	Br SWITCH	RE-CONNECTION TYPE HANDOVER
	ADDITION OF Br	H H H		ADDITION OF Br	ADDITION OF Br DELETION OF Br ADDITION OF ERS ADDITION OF Br SWITCHED HO ADDITION OF Br ADDITION OF Br

iG.

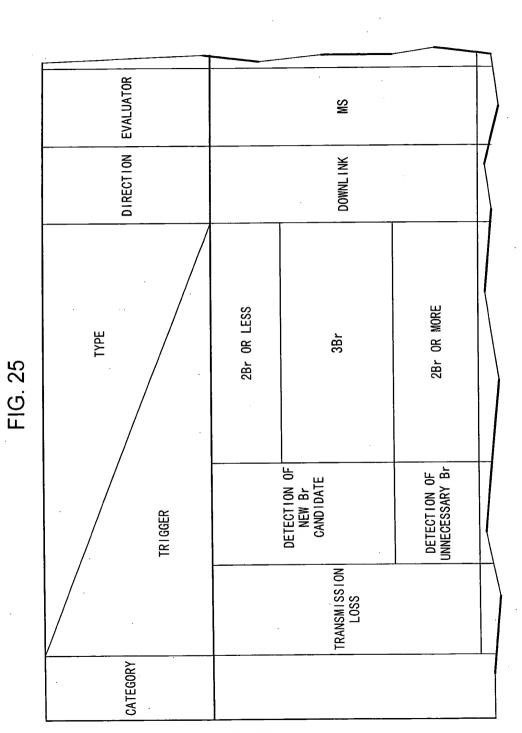


					· ·	
	BTS, DHT/ MS	BTS, DHT/ MS	BTS, DHT/ MS	BTS, DHT/ MS	BTS, 0PS	MSC
•	UPL I NK/ DOWNL I NK	UPL I NK/ DOWNL I NK	DOWNL INK/	UPLINK/ DOWNLINK	UPLINK/ DOWNLINK	
	MISREPRESENTED CODES	VACANT TRX OF THE SAME FREQUENCY BAND ABSENT	PERCH SETTING POSSIBLE		DISCHARGE FOR MAINTENANCE	
	MISREPRES	SETTING OF THE SAME FREQUENCY BAND POSSIBLE	SETTING OF THE SAME FREQUENCY BAND IMPOSSIBLE	OUT-OF-SYNC	D I S	CHANGE OF ATTRIBUTES
	VISITING	DESTINATION	SECTOR SECTOR		OAM	CHANG
		DEGRADED QUAL I TY				
	NARROWLY DEFINED				BROAD! Y	DEFINED

DHT FIXED DH0	INTER-CELLULAR	ADDITION DELETION ADDITION OF Br OF Br								
THO	INTRA-CELLULAR, INTER-SECTOR	ON DELETION /DELETION OF Br								
	CRITERIA FOR EVALUATION INTRA-C	ADDITION OF Br	Lp NEW < Lp OLD-MIN + \(\triangle Lp_{INI}\)	SIR _{NEW} <sir<sub>STD</sir<sub>	LP NEW < LP OLD-MIN + ALP INI	SIR _{NEW} < SIR _{STD}	AND LD WENT < LD COLONIA + \triangle LD CONTA	LP OLD-MAX > LP OLD-MIN + \(\Delta\text{LP TER}\)	NO SIB	OLI NIM NO STD

CONTINUED FROM FIG. 24 FREQUENCY BAND HAS A CAPACITY DEGRADED QUALITY (OR DEGRADED OF A DIFFERENT FREQUENCY BAND THRESHOLD OVERRUN, AND ROUT SPECIFIC CODES), AND THE SAME SECTOR WITH THE SAME STR), AND Br SWITCHING HO DEGRADED QUALITY, AND Br SWITCHING HO THRESHOLD DIFFERENT FREQUENCY BAND CHANGE OF ATTRIBUTES (CC) OVERRUN, AND ROUTE OF A MAINTENANCE OPERATION HAS A CAPACITY HAS A CAPACITY OUT-OF-SYNC DEGRADED QUALITY

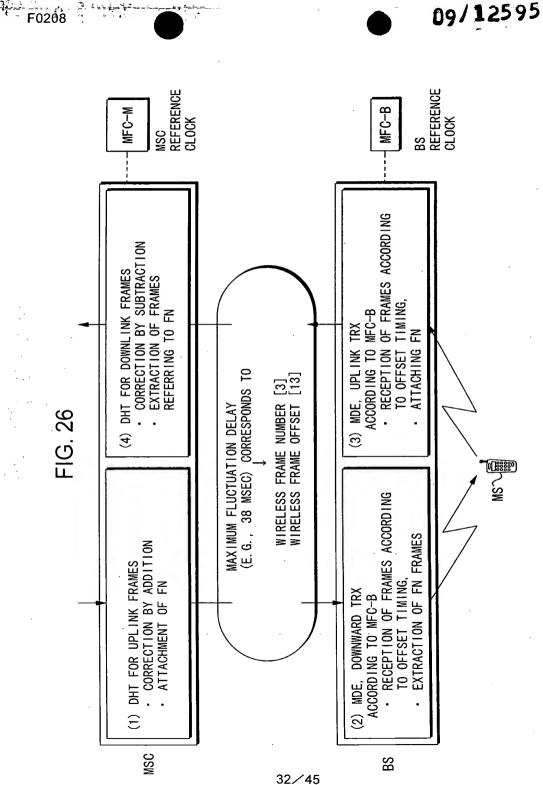
7,00° F0208 19 66 67

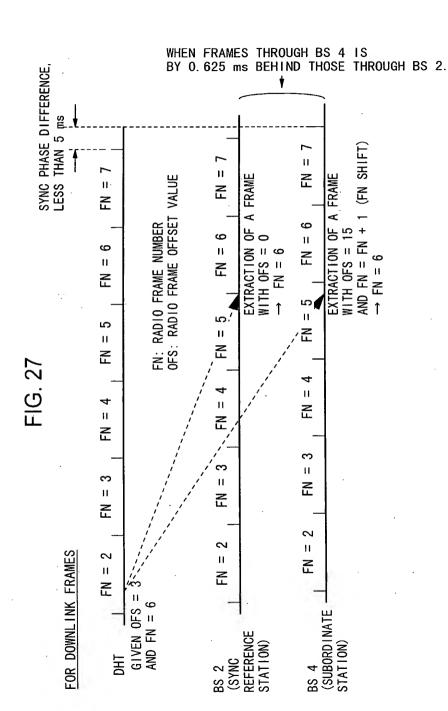


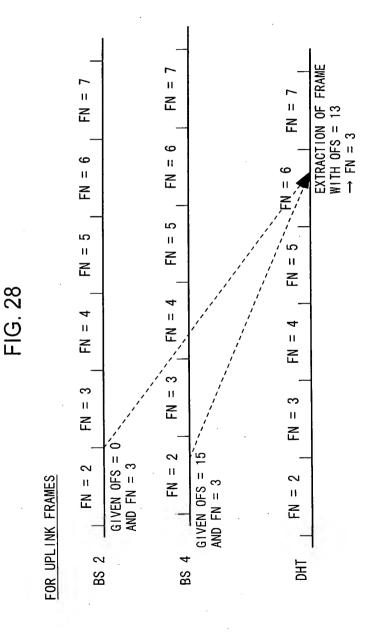
	BTS, DHT/ MS	BTS, DHT/ MS	BTS, DHT/ MS	BTS, DHT/ MS	BTS, 0PS	MSC
	UPL I NK/ DOWNL I NK	UPL INK/ DOWNL INK	UPL I NK/	UPL INK/ DOWNL INK	UPL I NK/ DOWNL I NK	
	MISREPRESENTED CODES	VACANT TRX OF THE SAME FREQUENCY BAND ABSENT	PERCH SETTING POSSIBLE		DISCHARGE FOR MAINTENANCE	
	MISREPRES	SETTING OF THE SAME FREQUENCY BAND POSSIBLE	SETTING OF THE SAME FREQUENCY BAND IMPOSSIBLE	OUT-OF-SYNC	TQ	CHANGE OF ATTRIBUTES
. /	VISITING	DESTINATION	SECTOR SECTOR		OAM	CHANC
		DEGRADED QUAL I TY				
	NARROWLY DEFINED				BROADI Y	DEFINED

				~~~	<u> </u>	~~	~~~	\ V	<del>\\\</del>	$\overline{}$	7	7
DHT SWITCHING	Br SWITCHING HO	INTRA- CELLULAR	SAME/DIFFERENT FREQUENCY									
	RE-CONNECTION TYPE HO	INTER-SECTOR /INTRA -CELLULAR	SAME/ DIFFERENT FREQUENCY									
(ED	RE-CONNEC	INTRA- CELLULAR	SAME/ DIFFERENT FREQUENCY									
DHT FIXED	SWITCHING HO	INTER-SECTOR /INTRA-CELLULAR	D I FFERENT FREQUENCY									
	Br SW	INTRA- CELLULAR	SAME FREQUENCY									
		CRITERIA FOR EVALUATION		Lp NEW < Lp OLD-MIN + ALP INI AND CIP (SIP)	SIR NEW -SIR STD	LP NEW < LP OLD-MIN + ALP INI AND	SIR _{NEW} <sir<sub>STD</sir<sub>	LP NEW < LP OLD-MIN + ALP SWT	LP OLD-MAX >LP OLD-MIN + ALP TER	0R	SIKMIN SIK STD	
				30/4	15							

#### 0 0 0 OF A DIFFERENT FREQUENCY BAND DEGRADED QUALITY (OR DEGRADED A CAPACITY THRESHOLD OVERRUN, AND ROUT FOR ONLY STR), AND Br SWITCHING HO SPECIFIC CODES), AND THE SAME SECTOR WITH THE SAME CHANGE OF ATTRIBUTES (CC) DEGRADED QUALITY, AND Br SWITCHING HO THRESHOLD DIFFERENT FREQUENCY BAND OVERRUN, AND ROUTE OF A MAINTENANCE OPERATION HAS A CAPACITY HAS A CAPACITY OUT-OF-SYNC FREQUENCY BAND HAS DEGRADED QUALITY







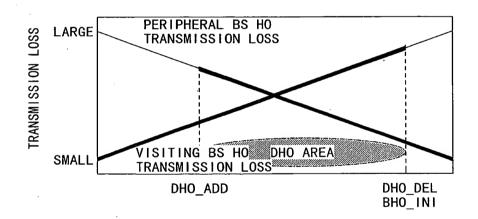
### FIG. 29

			CALCULATION OF TIMING PARAMETERS
	(1) DELIVERY	ERY	DELIVERED AT THE TIMING OF OFS = [16] (FIXED) - [13] (CORRECTED) = [3]
	THO 01	-	FN = [2] (REFERENTIAL CLK) + [3] (CORRECTED) + [1] (OFFSET ODD) = [6] GIVEN AT CLK = [2]
NW INWOOD		SYNC	EXTRACTION AT TIMING OF $0FS = [0]$ (FIXED)
FRAME	(9) EXTRACTION	REFERENTIAL BS	EXTRACTION OF FRAME WITH FN = [6] (REFERENTIAL CLK) AT REFERENTIAL CLK = [6]
	AT BS	SUBORDINATE	EXTRACTION AT TIMING OF OFS = [0] (FIXED) - [1] (SYNCHRONIZATION DIFFERENCE) = [-1] + [16](FN SHIFT) = [15]
		BS	EXTRACTION OF FRAME WITH FN = [5] (REFERENTIAL CLK) + [1] (FN SHIFT) = [6] AT REFERENTIAL CLK = [5]

### FIG. 3

	-	<del>-</del>		· T	· · · ·	
CALCULATION OF TIMING PARAMETERS	EXTRACTION AT TIMING OF $OFS = [0]$ (FIXED)	FN = [3] (REFERENTIAL CLK) GIVEN AT REFERENTIAL CLK = [3]	DELIVERY AT TIMING OF OFS = [0] (FIXED) - [1] (SYNCHRONIZATION DIFFERENCE) = [-1] + [16](FN SHIFT) = [15]	DELIVERY OF FRAME WITH FN = [2] (REFERENTIAL CLK) + [1] (FN SHIFT) = [3] AT REFERENTIAL CLK = [5]	EXTRACTION AT TIMING OF OFS = [13] (CORRECTION)	EXTRACTION OF FRAME WITH FN = [6] (REFERENTIAL CLK) [3] (CORRECTION) = [3] AT REFERENTIAL CLK = [6]
	SYNC	BS BS	(3) EXTRACTION	AT DHT		
		(3) DELIVERY	T0 BS		(3) EX.	AT
			MK (ib)	FRAME	9	

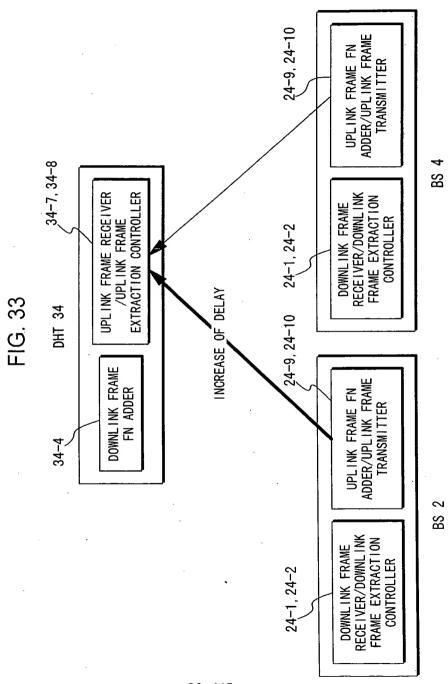
FIG. 31

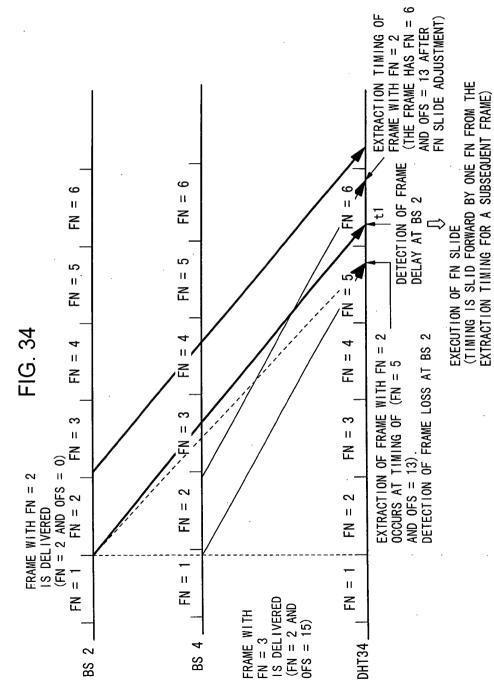


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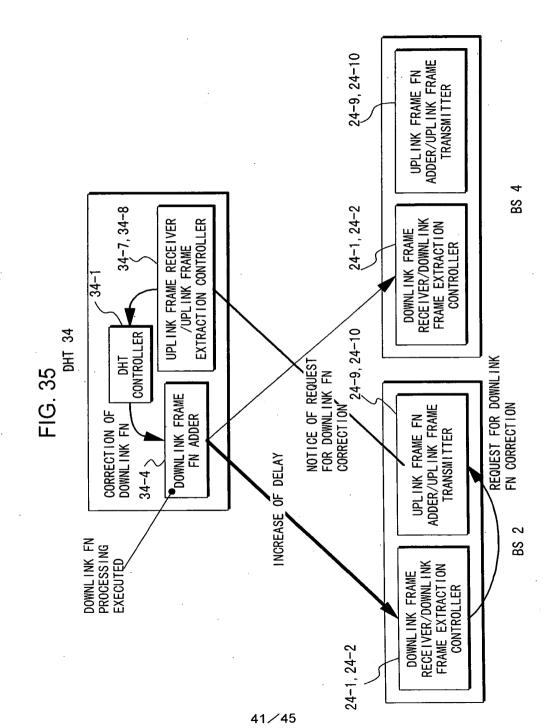
FIG. 32

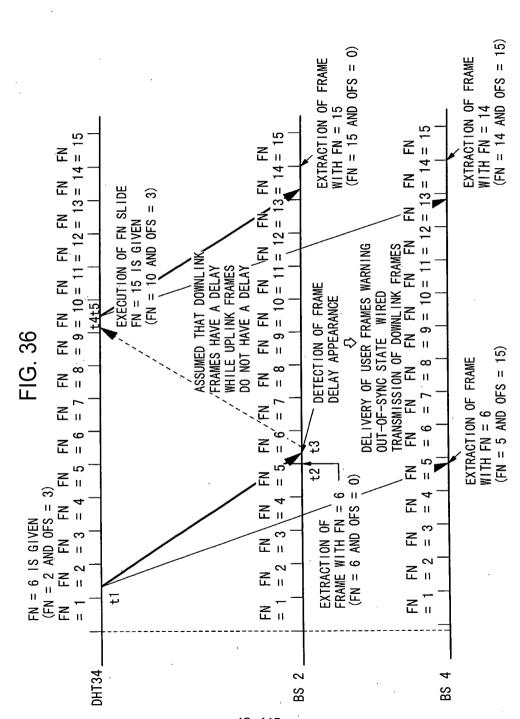
	(a-n)	SERVICE n	-	က	-	3
EMENT TABLE	(a-3) DATA	COMMUNICATION 1	4	16	4	16
ARAMETER MANAGE	(a-2)		1	5		S .
FN SLIDE PROCESSING PARAMETER MANAGEMENT TABLE	(a−1) MS~MSC LINK	FOR AFFILIATED CONTROL SIGNALS	2	10	2	10
FN SLI	SERVICE TYPE		FN SLIDE UNIT	FN SLIDE MAXIMAL WIDTH	FN SLIDE UNIT	FN SLIDE MAXIMAL WIDTH
		PARAMETER	FOR	FRAME	FOR	DOWNLINK FRAME





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FIG. 37

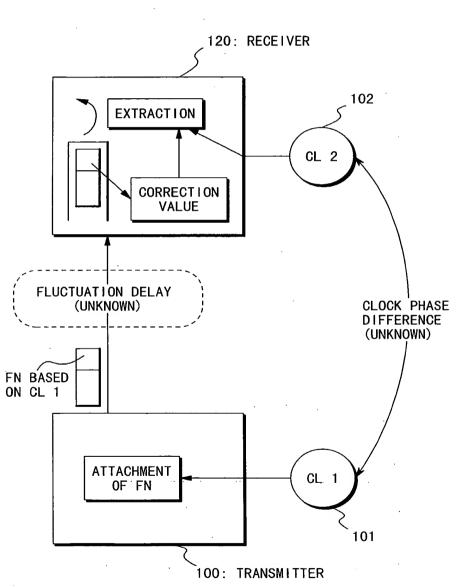


FIG. 38

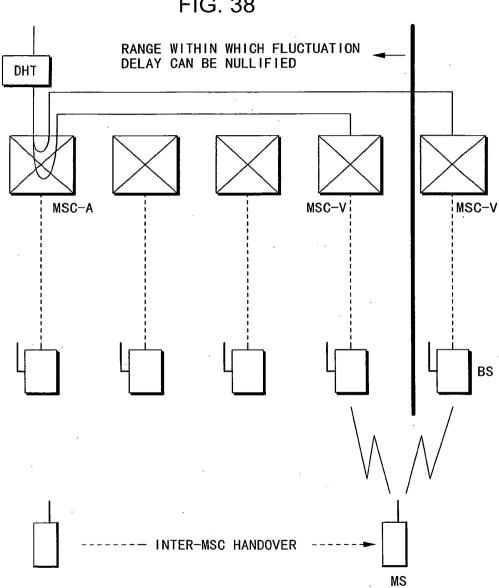
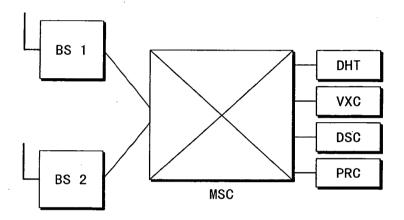




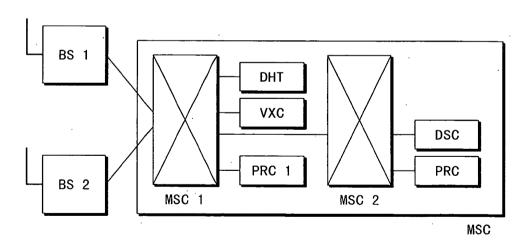


FIG. 39

· CASE 1



CASE 2



**X** MSC 1 CAN BE LOCATED ADJACENT TO BS